

SEQUENCE LISTING

<110> THE BOARD OF REGENTS, THE UNIVERSITY OF TEXAS
 ROY, ARUN
 LAVROVSKY, YAN
 TYAGI, RAKESH
 SONG, CHUNG
 CHATTERJEE, BANDANA
 CHEN, SHUO

<120> ESTROGEN RECEPTOR SITE-SPECIFIC RIBOZYMES AND USES THEREOF FOR ESTROGEN
 DEPENDENT TUMORS

<130> 4003.002310

<140> PCT/US00/15243

<141> 2000-06-02

<150> 60/137,470

<151> 1999-06-04

<160> 14

<170> PatentIn version 3.0

<210> 1

<211> 22

<212> DNA

<213> oligonucleotide

<400> 1

gcctggtgtg ctccgatgaa gc

22

<210> 2

<211> 22

<212> DNA

<213> oligonucleotide

<400> 2

cctgcagtgg cttgctgaat cc

22

<210> 3

<211> 21

<212> RNA

<213> oligonucleotide

<400> 3

gaugaguccg ugaggacgaa a

21

<210> 4

<211> 1380

<212> DNA

<213> homosapiens

<400> 4
ggagccccctg aaccgtccgc agctcaagat ccccttgag cggccccctgg gcgaggtgta 60
cctggacagc agcaagcccc cctgtgtacaa ctaccccgag ggcgcgcct acgagttcaa 120
cgccgcggcc gccgccaacg cgcaggtcta cggtcagacc ggctccccct acggcccccg 180
gtctgagget gcggcgttcg gctccaacgg cctgggggggt ttccccccac tcaacagcgt 240
gtctccgagc ccgctgatgc tactgcaccc gccgcgcag ctgtcgcctt tcttcagacc 300
ccacggccag caggtgccct actacctgga gaacgagccc agcggctaca cggtgcgca 360
ggccggcccc cgggcattct acaggccaaa ttcagataat cgacgccagg gtggcagaga 420
aagattggcc agtaccaatg acaagggaag tatggctatg gaatctgcca aggagactcg 480
ctactgtgca gtgtgcaatg actatgcttc aggctaccat tatggagtct ggtcctgtga 540
gggctgcaag gccttcttca agagaagtat tcaaggacat aacgactata tgtgtccagc 600
caccaaccag tgcaccattg ataaaaacag gaggaagagc tgccaggcct gccggctccg 660
caaagtctac gaagtgggaa tgatgaaagg tgggatacga aaagaccgaa gaggaggag 720
aatgttgaaa cacaagcgcc agagagatga tggggagggc aggggtgaag tggggtctgc 780
tgagacatg agagctgcca acctttggcc aagcccgtc atgatcaaac gctctaagaa 840
gaacagcctg gccttgtccc tgacggccga ccagatggtc agtgccttgt tggatgctga 900
gcccccata ctctattccg agtatgatcc taccagaccc ttcagtgaag cttcgatgat 960
gggcttactg accaacctgg cagacagga gctgggtcac atgatcaact gggcgaagag 1020
ggtgccaggc tttgtggatt tgaccctcca tgatcaggtc caccttctag aatgtgcctg 1080
gctagagatc ctgatgattg gtctcgtctg gcgctccatg gagcaccag tgaagctact 1140
gtttgctcct aacttgctct tggacaggaa ccagggaataa tgtgtagagg gcatggtgga 1200
gatcttcgac atgctgctgg ctacatcatc tcggttccgc atgatgaatc tgcagggaga 1260
ggagtttgtg tgcctcaaat ctattatatt gcttaattct ggagtgtaca catttctgtc 1320
cagcacctg aagtctctgg aagagaagga ccatatccac cgagtcctgg acaagatcac 1380

<210> 5
<211> 2092
<212> DNA
<213> homosapiens

<400> 5
gaattccaaa attgtgatgt ttcttgatt tttgatgaag gagaaatact gtaatgatca 60
ctgtttacac tatgtacact ttaggccagc cctttgtagc gttatacaaa ctgaaagcac 120

accggacccg caggctcccg gggcagggcc ggggccagag ctgcgctgtc ggcgggacat	180
gcgctgcgtc gcctctaacc tcgggctgtg ctctttttcc aggtggcccg ccggtttctg	240
agccttctgc cctgcgggga cacggtctgc accctgcccg cggccacgga ccatgaccat	300
gacctccac accaaagcat ctgggatggc cctactgcat cagatccaag ggaacgagct	360
ggagcccctg aaccgtccgc agctcaagat cccctggag cggcccctgg gcgaggtgta	420
cctggacagc agcaagcccg ccgtgtacaa ctaccccgag ggcgcgcct acgagttcaa	480
cgccgcggcc gccgccaacg cgcaggtcta cggtcagacc ggccctcccct acggcccccg	540
gtctgaggct gcggcgttcg gctccaacgg cctgggggggt ttccccccac tcaacagcgt	600
gtctccgagc ccgctgatgc tactgcaccc gccgcgcgag ctgtgcctt tcctgcagcc	660
ccacggccag caggtgccct actacctgga gaacgagccc agcggctaca cggtgcgaga	720
ggccggcccc cgggcattct acaggccaaa ttcagataat cgacgccagg gtggcagaga	780
aagattggcc agtaccaatg acaagggaag tatggctatg gaatctgcca aggagactcg	840
ctactgtgca gtgtgcaatg actatgcttc aggtaccat tatggagtct ggtcctgtga	900
gggctgcaag gccttcttca agagaagtat tcaaggacat aacgactata tgtgtccagc	960
caccaaccag tgcaccattg ataaaaacag gaggaagagc tgccaggcct gccggctccg	1020
caaagtctac gaagtgggaa tgatgaaagg tgggatacga aaagaccgaa gaggaggag	1080
aatgttgaaa cacaagcgcc agagagatga tggggagggc aggggtgaag tggggtctgc	1140
tggagacatg agagctgcca acctttggcc aagcccgtc atgatcaaac gctctaagaa	1200
gaacagcctg gccttgtccc tgacggccga ccagatggc agtgccttgt tggatgctga	1260
gcccccata ctctattccg agtatgatcc taccagacc ttcagtgaag cttcgatgat	1320
gggcttactg accaacctgg cagacagga gctgggtcac atgatcaact gggcgaagag	1380
ggtgccaggc tttgtggatt tgaccctcca tgatcaggc caccttctag aatgtgcctg	1440
gctagagatc ctgatgattg gtctcgtctg gcgctccatg gagcaccag tgaagctact	1500
gtttgctcct aacttgctct tggacaggaa ccagggaata tgtgtagagg gcatggtgga	1560
gatcttcgac atgctgctgg ctacatcatc tcggttcgc atgatgaatc tgcagggaga	1620
ggagtttgtg tgcctcaaatt ctattatctt gcttaattct ggagtgtaca catttctgtc	1680
cagcaccctg aagtctctgg aagagaagga ccatatccac cgagtcctgg acaagatcac	1740
agacactttg atccacctga tggccaaggc aggcctgacc ctgcagcagc agcaccagcg	1800

gctggcccag ctctctctca tcctctccca catcaggcac atgagtaaca aaggcatgga	1860
gcatctgtac agcatgaagt gcaagaacgt ggtgcccctc tatgacctgc tgctggagat	1920
gctggacgcc caccgcctac atgcgcccac tagccgtgga ggggcatccg tggaggagac	1980
ggaccaaagc cacttggcca ctgcgggctc tacttcatcg cattccttgc aaaagtatta	2040
catcacgggg gaggcagagg gtttcctgc cacagtctga gagctccctg gc	2092

<210> 6
 <211> 20
 <212> RNA
 <213> oligonucleotide

<400> 6	
uauauguguc cagccaccaa	20

<210> 7
 <211> 41
 <212> RNA
 <213> oligonucleotide

<400> 7	
uugguggcug cugaugaguc cgugaggacg aaacacauau a	41

<210> 8
 <211> 10
 <212> RNA
 <213> oligonucleotide

<400> 8	
uauauguguc	10

<210> 9
 <211> 10
 <212> RNA
 <213> oligonucleotide

<400> 9	
cagccaccaa	10

<210> 10
 <211> 21
 <212> RNA
 <213> oligonucleotide

<400> 10	
uuauggaguc ugguccugug a	21

<210> 11

<211> 42
<212> RNA
<213> oligonucleotide

<400> 11
ucacaggacc acugaugagu ccgugaggac gaaacuccau aa 42

<210> 12
<211> 10
<212> RNA
<213> oligonucleotide

<400> 12
uuauggaguc 10

<210> 13
<211> 11
<212> RNA
<213> oligonucleotide

<400> 13
ugguccugug a 11

<210> 14
<211> 42
<212> RNA
<213> oligonucleotide

<400> 14
ucacaggacc acuaugagu ccgugaggac gaaccuccau aa 42